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Search

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- [Relevancy \(descending\)](#)
- [Title \(descending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(descending\)](#)
- [Release Date \(descending\)](#)

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Displaying 1 - 10 of 33 results

Closed Topic Search

Published on SBIR.gov (<https://www.sbir.gov>)

[1. 8.3.2R: Airborne Wave Height Sensor Based on Multistatic GPS RADAR](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The assimilation of sea wave heights and related winds into ocean models and verification of the NWS wave forecast model improves their accuracy. To map ocean surface topography and wave heights, satellite and airborne radars are currently used. However, those instruments are expensive and are not suitable for installation on board small platforms such as the Unmanned Aircraft Systems (UAS). Recent research has been performed using reflected signals of the U.S. Global Positioning System (GPS).

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[2. 8.1.4F: Aquaculture: Sustainable Marine Aquaculture](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The purpose of this topic is to develop innovative products and services to support the development of an environmentally, socially, and economically sustainable marine aquaculture industry. There is a need for products and services that will allow the aquaculture industry to operate in a way that is compatible with healthy marine ecosystems and other users of coastal and ocean resources.

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[3. 8.1.2N: Automated Vertical Reference](#)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: We are aware of research grade products yielding millimeter per year motions for dam deformation and continental drift. Others are able to generate dynamic vertical positioning on buoys to within 3-5 cm. Between these two ranges we believe there exist the capability to develop and operationally observe vertical stability (lack of change) at a sub-centimeter resolution. A small, easily-d ...

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[4. 8.2.1C: Calibration of the New Climate Forecast System \(CFSv2\) for Commercial Applications](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

NOAA seeks development of calibration methods that will lead to quantifiable improvement of the new version of the U.S. Climate Forecast System (CFSv2) model and thereby enhance its value in the private sector. All such methods developed in response to this Solicitation must be suitable for the ongoing calibration of the CFS forecasts by private sector firms in real-time operations.

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5. [8.2: Climate](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

This is the topic description for 8.2 Climate.

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6. [8.3: Climate Adaptation and Mitigation](#)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Ultra-High Precision Measurements of Greenhouse Gas Stable Isotope Ratios 8.3 DOC DOC/NOAA SBIR NOAA-2014-1 ...

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7. [8.2.3C: Climate Decision-support Tools for the Energy and Insurance Sectors](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

Societal concerns about the impacts of climate change and variability are growing. Also, uses of climate data and services in the business sector and by the public are expanding. Citizens in public and private sectors require easy access to credible climate science information and climate services to help them make informed decisions affecting their lives and livelihoods. Climate influences almost every sector of society and affects up to 40 percent of the United States \$10 trillion annual economy.

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8. [8.2.2C: Climate Impact Visualization Tools for Planning and Outreach](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

Among the findings of the America's Climate Choices Report on Adaptation is that Climate change is occurring... and poses significant risks for — and in many cases is already affecting — a broad range of human and natural systems. The authors of this report call for a new era of climate change science with fundamental, use-inspired research, which not only improves our understanding of the causes and consequences of climate change but also is useful to decision makers at the local, regional, national, and international levels acting to limit and adapt to climate change.

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9. [8.1.3N,R: Compact, Portable and Light-Weight Two-Person Hyperbaric Chamber](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date:

04-01-2011

Currently, at many dive sites, NOAA cannot perform “working” dives deeper than 100 feet or using nitrox breathing mixtures due to the OSHA requirement for a multi-lock, multi-person hyperbaric chamber at the dive site. Such chambers are primarily constructed of metal, are heavy, occupy a substantial footprint, and are not easily transported.

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10. [8.1.7F: Creation of an Incremental Recording Membrane for Tracking Ocean Chemistry](#)

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The purpose of this topic is to develop a chemically-sensitive membrane to enable characterization of large-scale distributions of small marine tetrapods during longdistance migrations.

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- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [Next](#)
- [Last](#)

```
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